Contribution ID: **2** Type: **Talk**

Studying neutron-rich nuclei beyond the dripline

Tuesday, 11 September 2012 14:00 (30 minutes)

One of the objectives of the s393 experiment is to study unbound nuclei on the neutron-rich side of the nuclei chart surviving a (p,2p) knockout reaction. After the quasi-free scattering in the target, the unbound nuclei lose one neutron which will reach the Large Area Neutron Detector, LAND, the remaining isotope bent by ALADIN is selected in the fragment detector branch (GFI-TFW). Together this allows for a reconstruction of the invariant mass. Further, it's possible to use the gamma detector (Crystall Ball) to do gamma-coincidence measurement.

The analysis is in a very preliminary state, I will present the available statistics from the S393 experi

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Session Classification: s393 / s389

Track Classification: s3xx